CW#61&HW#61: Similar Triangles Challenge

Geometry

Due: Thursday, Dec 17th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

Failure to show ALL WORK and follow all directions COMPLETELY will result in LaSalle.

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| 1) | |
| 2) Use the diagram at the below to find the coordinates of point Z so that Δ*RST* ~ Δ*RXZ*.    *R*(0, 0), *S*(0, 4), *T*(–8, 0), *X*(0, 2), *Z*(*x*, *y*) | 3) In order to estimate the height *h* of a flag pole, a 5 foot tall male student stands so that the tip of his shadow coincides with the tip of the flag pole’s shadow. This scenario results in two similar triangles as shown in the diagram. What is the height *h* (in feet) of the flag pole? |

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| 4)    Explain: |
| 5) |
| 6) Solve for the distance across the river. |
| 7) Hint you need to set up an equation. |